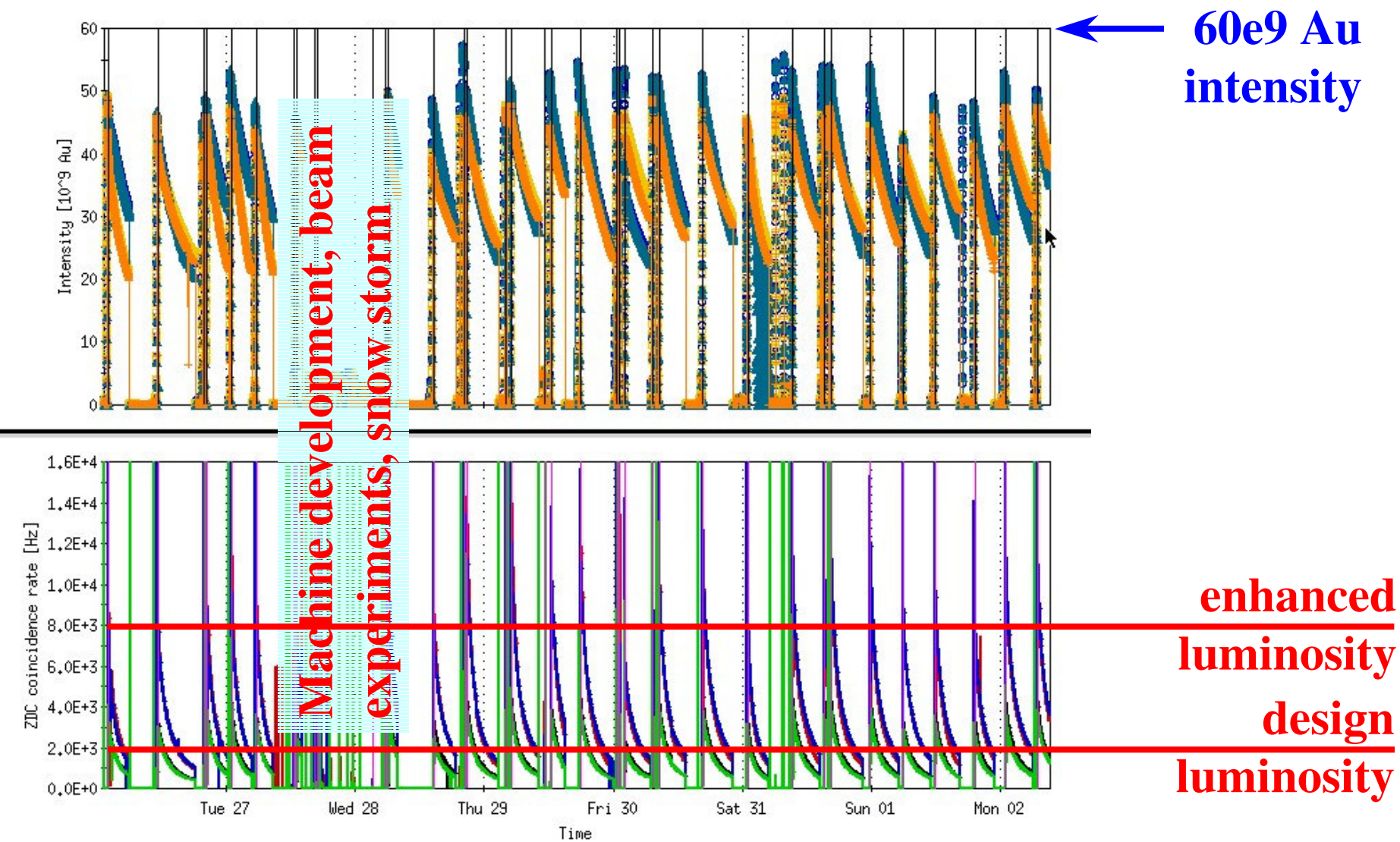


Progress in last week:

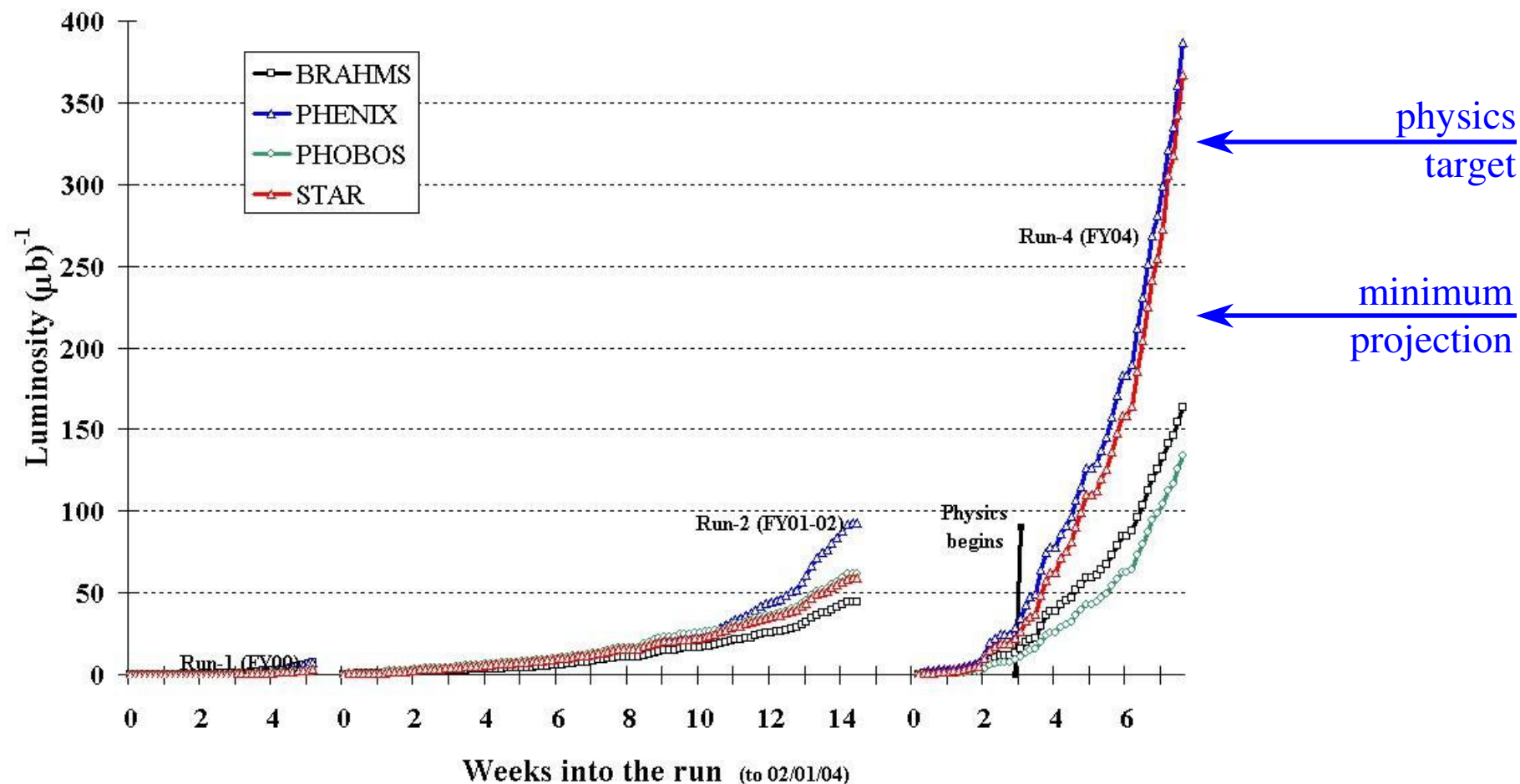
1. Fast STAR magnet reversal (~2hrs) (Todd)
2. Blue Landau cavity operational (Mike Brennan)
→ Needed for very high intensity bunches
(after Booster bunch merge)
3. More efficient operation (Greg & shift crews)

Stores during last week, Monday to Monday



Delivered $390 (\mu\text{b})^{-1}$ to Phenix [week ago: 251]
139 $(\mu\text{b})^{-1}$ last week [week ago: 93]
Target 325 $(\mu\text{b})^{-1}$

← As of 02/01/04 24:00
Star $\times 0.9$
Phobos $\times 0.3$
Brahms $\times 0.4$



Some statistics (week 25-Jan to 1-Feb), no maintenance

- No of stores : 21
Time in store : 100hrs (60% of calendar time)
- Average store time : 4.5hrs
Rms store time : 1.5hrs
Min store time : 1.1hrs
Max store time : 7.1hrs
- Av. store-to-store time : 2.6hrs (excluding beam experiments)
Rms store-to-store time: 1.9hrs
Min store-to-store time: 0.5hrs
- Optimum store length : 2.9hrs (for zero detector turn-on time)

- No improvement in peak luminosity in next few weeks (vacuum limited)
- More integrated luminosity may come from
 - Optimized store length
 - Reduced store-to-store time (Greg Marr & Ops)

Proposal:

- Start testing injectors 3.5hrs after steering
- **Dump store 4.0hrs after steering by default**
[Could implement “reversed voting”:
keep store for another hour if 2 out of 4 experiments vote “keep”]

Plan for the week:

1. Collimation on ramp
2. LISA parallel steering
3. Yellow Landau cavity
4. Booster bunch merge work
(parallel to RHIC operation)
5. Optics and dispersion data at store

Medium term ideas (~weeks):

- Very high intensity bunches ($>1.5e9$)
- $\beta^* = 80\text{cm}$ at Phenix

[requires some of the above to be finished successfully]